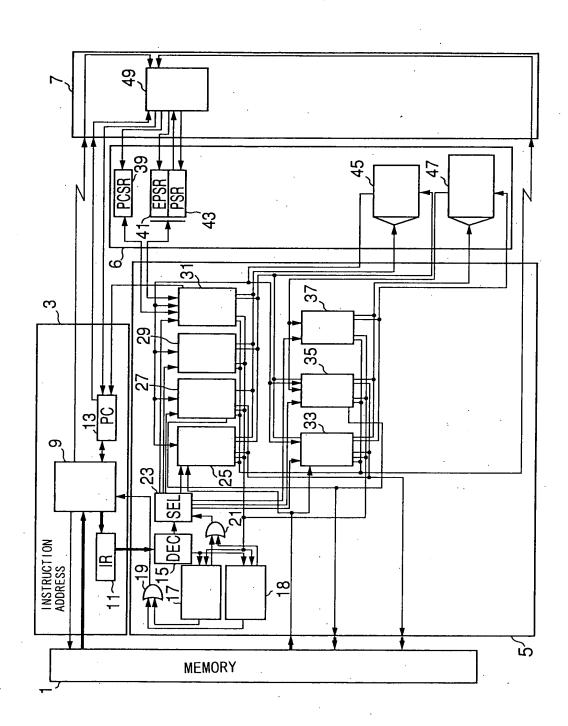
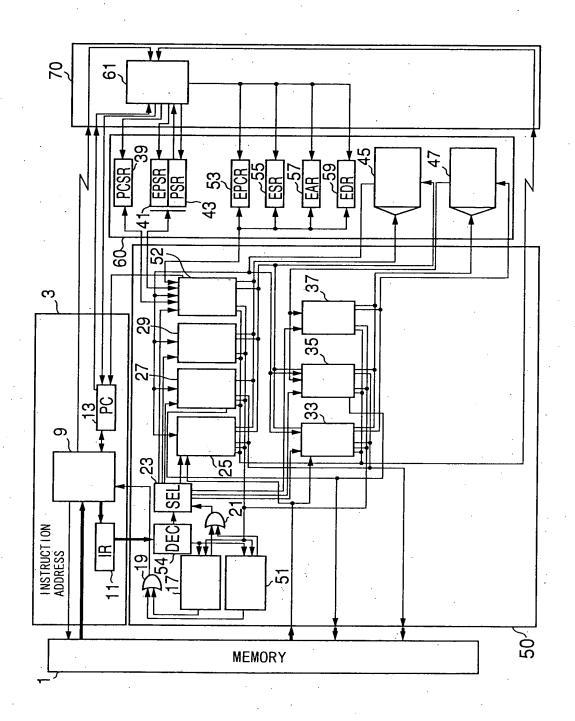
FIG. 1 PRIOR ART



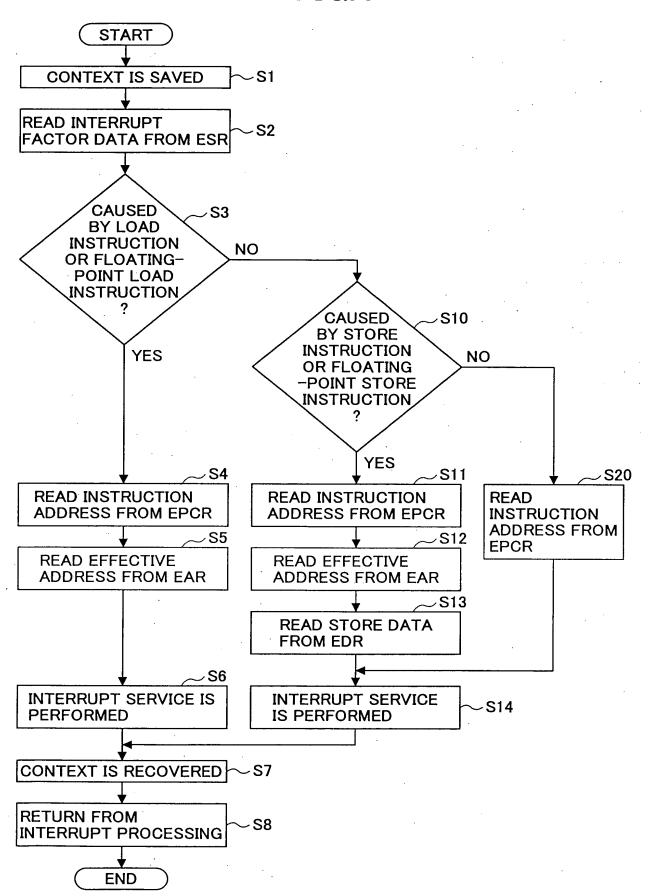
F16.2



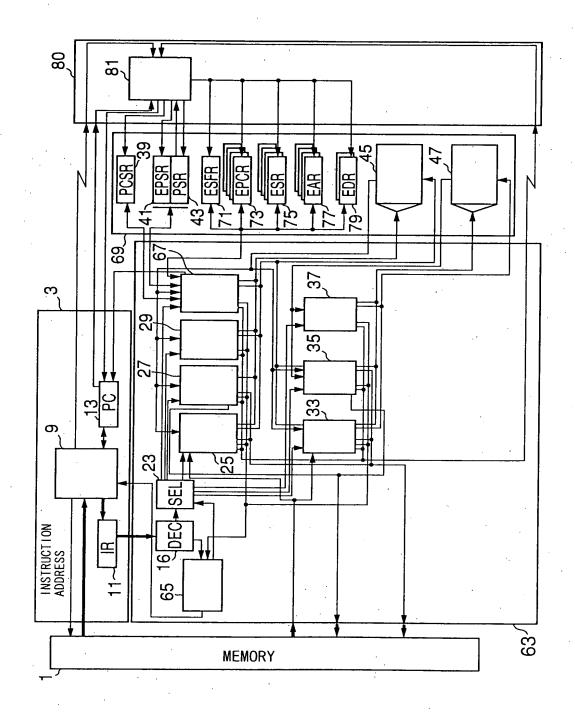
## FIG.3

INSTRUCTION EXECUTION PART	KIND OF INSTRUCTION	EPCR	ESR	EAR	EDR
LOAD INSTRUCTION EXECUTION PART	LOAD INSTRUCTION	0	0	0	1
STORE INSTRUCTION EXECUTION PART	STORE INSTRUCTION	0	0	0	0
ARITHMETICAL INSTRUCTION EXECUTION PART	ARITHMETICAL INSTRUCTION	0	0		
FLOATING-POINT LOAD INSTRUCTION EXECUTION PART	FLOATING-POINT \ LOAD INSTRUCTION	0	0	0	l
FLOATING-POINT STORE INSTRUCTION EXECUTION PART	FLOATING-POINT STORE INSTRUCTION	0	0	0	0
FLOATING-POINT ARITHMETICAL INSTRUCTION EXECUTION PART	FLOATING-POINT ARITHMETICAL INSTRUCTION	0	0		
OTHER INSTRUCTION EXECUTION PART	OTHER INSTRUCTION	0	0	-	

FIG.4



F1G. 5



## FIG 6

	6 th bit	5 th bit	4 th bit	Third bit	Second bit	First bit	0 th bit
_	ESR6	ESR5	ESR4	ESR3	ESR2	ESR1	ESR0

## FIG.7

INSTRUCTION EXECUTION PART	KIND OF INSTRUCTION EPCR0 ESR0		EPCR1 ESR1	EPCR2 ESR2	EPCR3 ESR3	EPCR4 ESR4	EPCR5 ESR5	EPCR6 ESR6
					EAR3	EAR4	EAR5 EDR5	EAR6 EDR6
LOAD INSTRUCTION EXECUTION PART	LOAD INSTRUCTION				.0			
STORE INSTRUCTION EXECUTION PART	STORE INSTRUCTION						0	
ARITHMETICAL INSTRUCTION EXECUTION PART	ARITHMETICAL INSTRUCTION	I	0	ı	l	1		1
FLOATING-POINT LOAD INSTRUCTION EXECUTION PART	FLOATING-POINT LOAD INSTRUCTION					0		
FLOATING-POINT STORE INSTRUCTION EXECUTION PART	FLOATING-POINT STORE INSTRUCTION	l	.]				I	0
FLOATING-POINT ARITHMETICAL INSTRUCTION EXECUTION PART	FLOATING-POINT ARITHMETICAL INSTRUCTION	·		0		l	l	I
OTHER INSTRUCTION EXECUTION PART	OTHER INSTRUCTION	0						

## FIG.8 START CONTEST IS SAVED **READ INTERRUPT** READ INTERRUPT -S2 FACTOR DATA 0 **FACTOR DATA 3** -S8 FROM ESR FROM ESR INTERRUPT INTERRUPT YES YES **FACTOR DATA 0 FACTOR DATA 3** IS HELD? IS HELD? **S100** S130 READ INSTRUCTION NO READ INSTRUCTION NO ADDRESS 0 FROM ADDRESS 3 FROM **EPCR EPCR** <u>~√S101</u> <u>~ S</u>131 INTERRUPT SERVICE READ EFFECTIVE IS PERFORMED ADDRESS 3 FROM EAR ~ S132 INTERRUPT SERVICE **READ INTERRUPT** IS PERFORMED **FACTOR DATA 1** -S4 FROM ESR READ INTERRUPT **FACTOR DATA 4** ~S10 **FROM ESR** INTERRUPT YES **FACTOR DATA 1** IS HELD? INTERRUPT S110 YES **FACTOR DATA 4 READ INSTRUCTION** NO IS HELD? ADDRESS 1 FROM S140 **EPCR** READ INSTRUCTION NO ~ S111 ADDRESS 4 FROM INTERRUPT SERVICE **EPCR** IS PERFORMED ~ S141 READ EFFECTIVE ADDRESS 4 FROM EAR **READ INTERRUPT FACTOR DATA 2 -**S6 S142 FROM ESR INTERRUPT SERVICE IS PERFORMED THE INTERRUPT YES **FACTOR DATA** 2 IS HELD

S120

<u>\_\_ S</u>121

READ INSTRUCTION

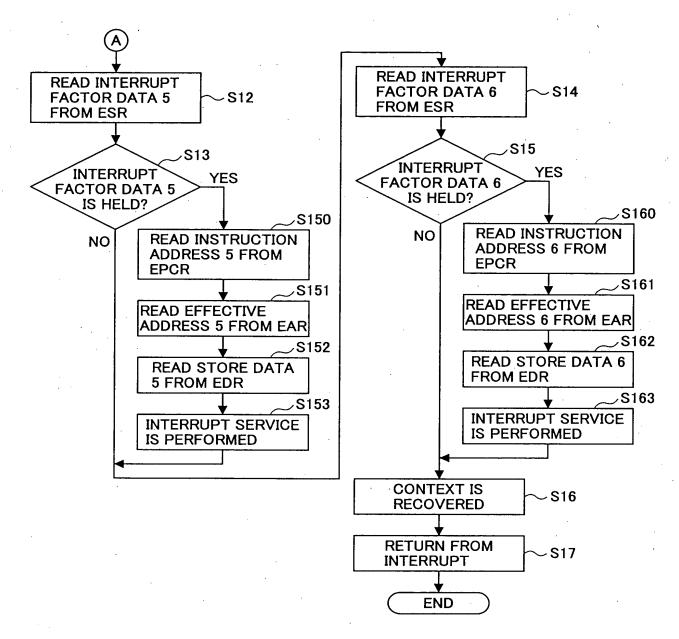
INTERRUPT SERVICE IS PERFORMED

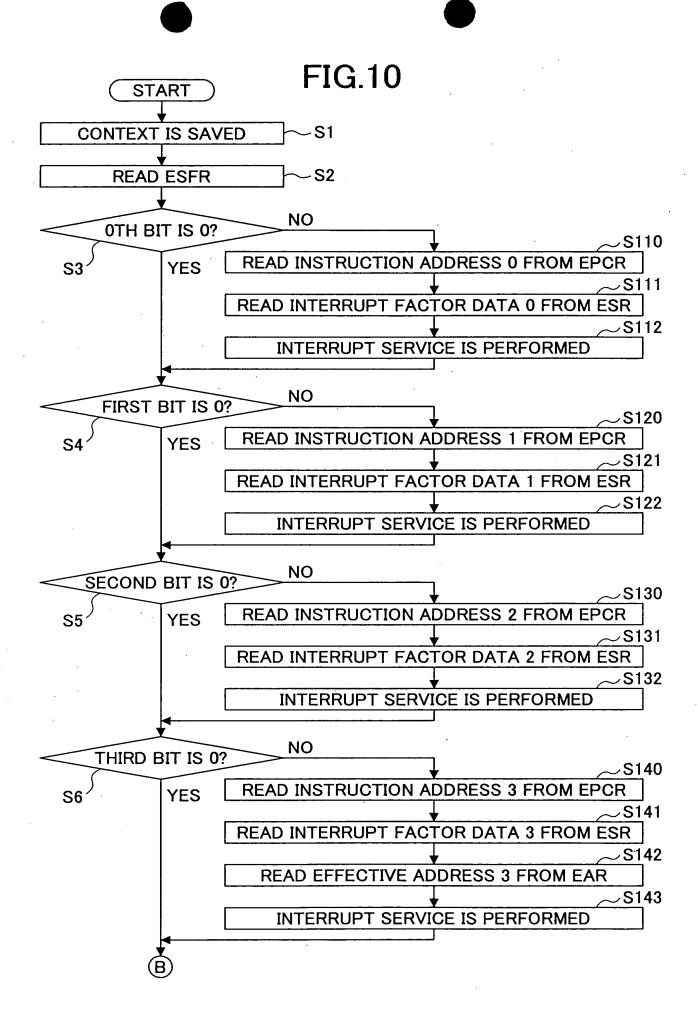
**ADDRESS 2 FROM** 

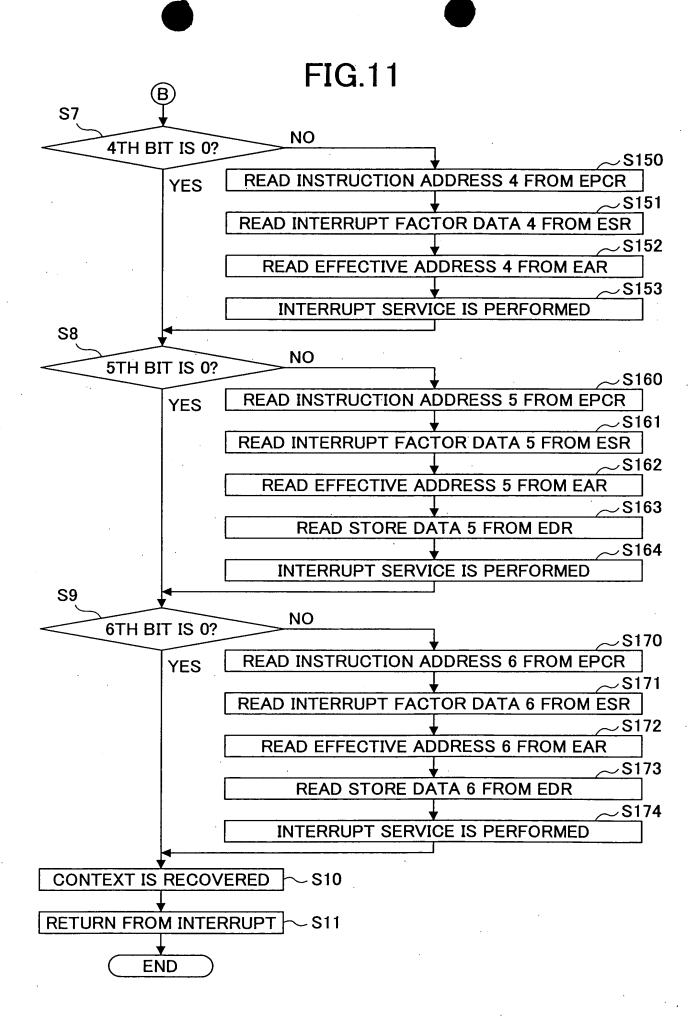
**EPCR** 

NO

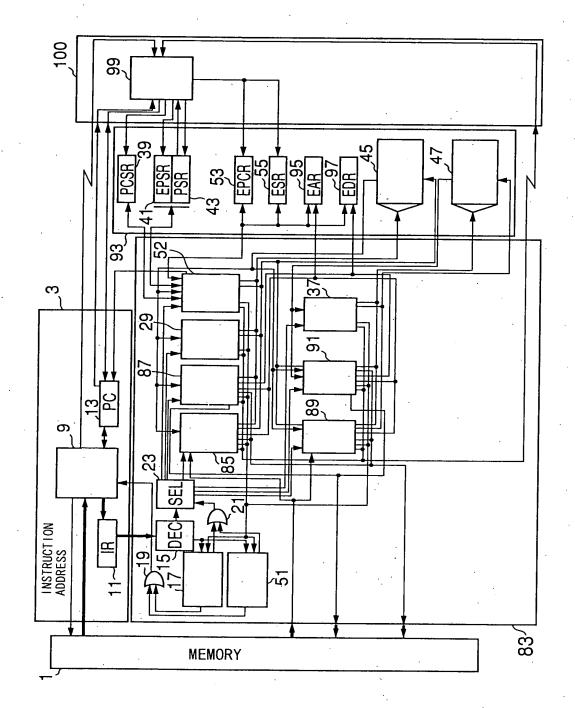
FIG.9







F1G. 12



F1G. 13

